

CREATIVE

PC-CAM™

300



Getting Started

## *Getting Started*

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### **Creative PC-CAM 300**

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# Introduction

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Creative PC-CAM 300 is an Internet video camera that allows you to capture images in 24-bit color (16.7 million colors). It also records videos in full-color. The following are just some of the things you can do with your PC-Cam 300:

- Video Conferencing.** Want to chat face-to-face with someone over the Internet? Used together with Microsoft NetMeeting, PC-CAM 300 allows you to have real-time videoconferencing with virtually anybody over the Internet!
- Security Camera.** Worried that someone will use your computer without your knowledge? When used together with PC-CAM Monitor, PC-CAM 300 can function as a security camera, recording short videos of any movement in its field of view. It can also be programmed to take pictures automatically at regular intervals.
- Portable Digital Camera.** As PC-CAM 300 is detachable, you can disconnect it from the computer and use it as a digital camera to take pictures anywhere you like! With PC-CAM 300's focus-free lens, you don't need to manually focus your camera. Downloading images from PC-CAM 300 is a breeze with PC-CAM Center.

# About the Applications

## Creative Oozic Player

An advanced software developed at the prestigious Creative-EMU Technology Center, Oozic™ Player lets you create and play stunning animated 3D videos to accompany your music files. It combines textures, images and colors to create mesmerizing forms that dance and groove – all in a matter of seconds. Oozic videos are relatively compact and may be sent easily through the Internet.

Oozic Player requires a 3D graphics card.

## Creative WebCam PhotoEditor

Creative WebCam PhotoEditor is an image editing and enhancing application that complements your PC-Cam. Its many features include special effects tools and a set of templates for creating impressive personal greetings and presentations.

## Creative PC-CAM Center

This powerful application lets you take pictures or record video clips and store them in albums. Use this application to download pictures to your computer, when using PC-CAM 300 as a portable digital camera. You can also export these pictures or video clips to other programs, or send them as attachments to your e-mail message. There are various settings for you to adjust, allowing you to optimize the quality of your pictures and video clips.

## Creative WebCam Monitor

If you are thinking of putting a live snapshot of your office, garden, or even your hamster cage on your web page, use WebCam Monitor! Just point your camera at the desired subject, specify some settings, and WebCam Monitor does the rest, including automatically uploading the snapshots to your web site. WebCam Monitor can even act as a motion-detecting security system that automatically sends an e-mail message to notify you whenever anybody moves within the camera's field of view.

**PixAround PixMaker  
(Creative Edition)**

PixAround™ PixMaker™ lets you create your own 360° interactive PixAround scenes, web pages and postcards in 3 easy steps – just snap, stitch and publish! Now, you can create interactive 360° web pages easily, without the need for expensive professional equipment or additional plug-ins.

**PixAround PixScreen  
(Creative Edition)**

PixScreen™ lets you view PixAround scenes without the need of additional plug-ins. Navigate around a 360° PixAround scene with the help of buttons built into PixScreen's friendly user interface, or print out your PixAround scenes in normal or panoramic view!

**Ulead Photo Express  
MCE**

This application allows you to download and organize photos as well as multimedia files. You can also perform quick and easy photo enhancements.

**Valadeo™ LiveSite®**

LiveSite makes Web creation so simple that everyone can have a Web site. Even if you're a beginner, you'll have no trouble creating an interesting and interactive site that's guaranteed to spark your visitors' attention and keep them coming back for more.

**Microsoft NetMeeting**

Microsoft® NetMeeting® is a voice communications client that includes support for international conferencing standards and provides true multi-user application sharing and data conferencing capabilities.

It supports one-way or two-way videoconferencing, so your friends can see you even if they do not have a camera. Audio-only conversations and text chats are also supported. Two or more users can collaborate on a document, doodle on a whiteboard, or even share any Windows application in real-time over the Internet or a corporate intranet.

**Microsoft Internet  
Explorer**

Microsoft Internet Explorer is an Internet browser that features ActiveX technology, so web pages can combine interactive ActiveX Controls, Java applets, and more to create interactive content. ActiveMovie technology allows you to view multimedia content on the Web, including MPEG audio and video.

# Before You Begin

## README File

- The README file on the PC-CAM 300 installation CD contains information not available at the time of printing. Read the file before connecting your PC-CAM to the computer.

## Minimum System Requirements

- 266 MHz Intel® Pentium® II or later 100% IBM® compatible computer
- 32 MB RAM
- 70 MB free hard disk space for installation of all software titles
- Available USB port or self-powered USB hub
- Microsoft Windows® 98, Windows 98 SE, Windows Millennium (Me) or Windows 2000
- Display adapter that supports 16-bit color at a resolution of 640 x 480 pixels
- CD-ROM drive installed
- Sound Blaster® or other Windows-compatible sound card and microphone (required for videoconferencing)
- Modem or LAN access to the Internet at 28.8 Kbps or faster (required for videoconferencing)

### For optimal performance

- Display adapter that supports 24-bit color at a resolution of 800 x 600 pixels
- Sound Blaster 16 or higher, or other Windows-compatible sound card with full-duplex support for simultaneous two-way conversations

## Updating Drivers

To download the latest drivers and file updates for PC-CAM 300, visit the following Creative web sites:

- <http://creative.com/support/files/> (for driver and software updates)
- <http://creative.com/support/faq/> (for questions about using PC-CAM products)
- <http://creative.com/support/tech/> (to contact regional technical support offices)

## Document Conventions

The following typographical conventions are used throughout this document:

*Table i: Document conventions*

<b>This</b>	<b>Represents</b>
	This notepad icon indicates information that is of particular importance and should be considered before continuing.
	This alarm clock icon indicates that failure to adhere to directions may result in loss of data or damage to your computer.
	The warning sign indicates that failure to adhere to directions may result in bodily harm or life-threatening situations.

# Installing PC-CAM 300

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This chapter consists of the following sections:

- This Package Contains
- About PC-CAM 300
- Buttons and LCD on PC-CAM 300
- Inserting or Changing Batteries
- Installing PC-CAM 300

## This Package Contains

Your package contains the following items:

- One PC-CAM 300 camera
- One USB cable
- One PC-CAM 300 installation CD
- 4 AAA batteries
- Wrist Strap
- Quick Start Guide

# About PC-CAM 300

Figure 1-1 shows you the front and back views of the camera.

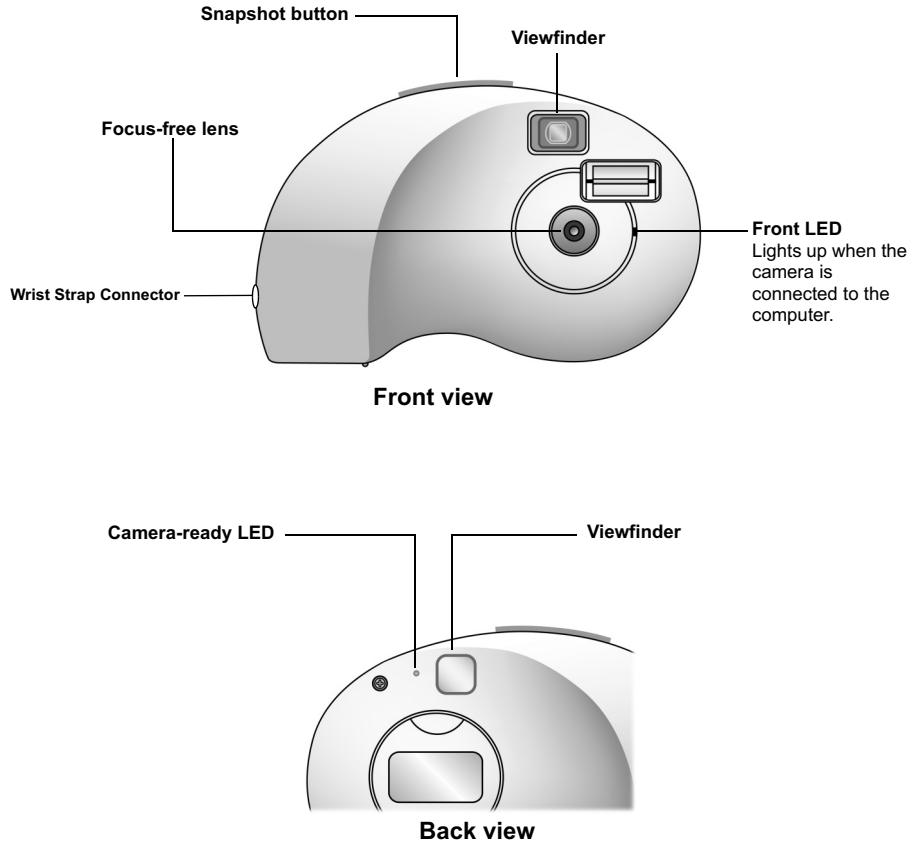


Figure 1-1: Front and back views of PC-CAM 300.



- To view pictures that you have taken while using the camera on-the-go, you must connect the camera to the computer and download the pictures using PC-CAM Center.
- As JPEG compresses an image according to its details, colors and compression ratio, the file size varies according to the picture taken.

Figure 1-2 shows the buttons and LCD on the camera.

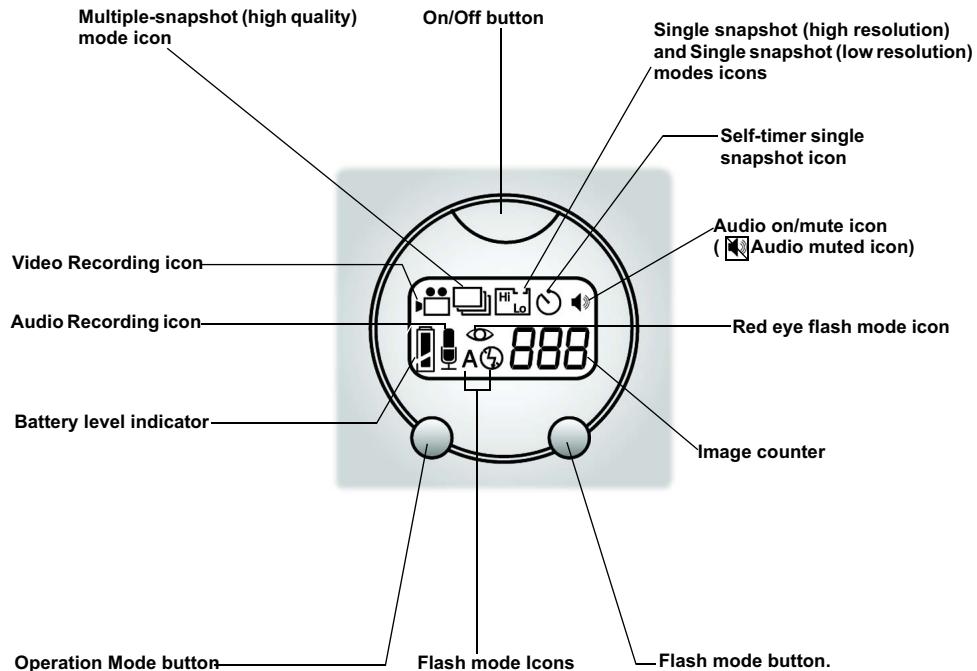


Figure 1-2: Buttons and LCD on PC-CAM 300.

# Buttons and LCD on PC-CAM 300

## Buttons

The following buttons are found on your PC-CAM 300:

**On/Off button**

To turn on your camera, press this button. You can only turn on when your camera when it is disconnected from the computer.

To turn off your camera, press and hold this button for two seconds.

Note: The camera will turn itself off if it is left idle for three minutes.

**Operation Mode button**

This button will change the camera's operation mode each time it is pressed. There are six modes of operation: Single snapshot (high quality), Single snapshot (low quality), Self-timer single snapshot, Multiple snap shot, Video Recording and Audio Recording.

To erase all the data from your camera, press this button together with the snapshot button.

**Flash Mode button**

This button will change the camera's flash mode each time it is pressed. There are four flash modes: Auto, Always, Red Eye and Disabled

**Snapshot button**

This button is used for taking photos and video clips. It is a two stage button. Pressing the button halfway (the first stage) will allow the camera to make the necessary adjustments for flash and exposure. Pressing the button completely (the second stage) allows the camera to take a picture or video.

## LCD

The following LCD icons and symbols are found on your PC-CAM 300:

**Single snapshot (high quality)** 

This icon indicates that you are in Single snapshot (high quality) mode. In this mode, the camera captures images at 640 x 480 pixels.

**Single snapshot (low quality)** 

This icon indicates that you are in Single snapshot (low quality) mode. In this mode, the camera captures images at 320 x 240 pixels.

**Multiple snapshot** 

This icon indicates that you are in the Multiple snapshot mode. In this mode, the camera captures five successive snapshots at 640 x 480 pixels.

**Self-timer single snapshot** 

This icon indicates that you are in Self-timer single snapshot mode. In this mode, the camera takes a high resolution snapshot after a specified length of time. Images are captured at 640 x 480 pixels.

**Video Recording** 

This icon indicates that the camera is in Video Recording mode. In this mode, the camera takes video clips.

**Audio Recording** 

This icon indicates that the camera is in Audio Recording mode. In this mode, the camera records voices or sounds.

**Auto Flash** 

This icon indicates that your camera is in Auto Flash mode. In this mode, the camera automatically detects whether there is sufficient light and activates the camera flash if needed.

**Always Flash** 

This icon indicates that your camera is in Always Flash mode. In this mode, the camera emits one flash for every photo taken

**Red eye** 

This icon indicates that your camera is in Red eye flash mode. In this mode, the camera emits multiple flashes for each photo taken.

**No Flash** 

This icon indicates that your camera's flash is disabled.

**Battery level indicator** 

This icon displays the battery level.

**Audio cues enabled** 

This icon indicates that the various audio cues built into your camera are enabled. When these cues are enabled, various beep sounds and shutter noises are emitted. Press the Operation Mode button for two seconds to disable your camera's audio cues. To enable your camera's audio cues again, press the Operation Mode button for two seconds.

**Image Counter**

Depending on which mode you are in, this counter displays the remaining number of photos, video clips or audio samples that can be recorded.

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# Inserting or Changing Batteries



- No batteries are required when the camera is connected to the computer.
- If the camera is to be connected to the computer for a long period of time, remove the batteries to prevent battery leakage.
- Make sure that you insert the batteries in the correct direction. If not, they may leak and cause damage to the camera.
- Do not mix old batteries with new ones or batteries of different types together.

For PC-CAM 300 to function as a portable digital camera when it is disconnected from the computer, you need to insert four 1.5 V AAA alkaline batteries into its battery compartment.

## To insert or replace batteries

1. Press the On/Off button to turn off the camera.
2. Holding the camera in one hand, push the battery compartment cover catch inwards, and then lift the cover up with your fingertip as shown in Figure 1-3.
3. Remove the old batteries (if any).
4. Insert the new batteries according to the directions shown in the battery compartment.
5. Close the battery compartment cover and then push the catch outward to lock the compartment cover.

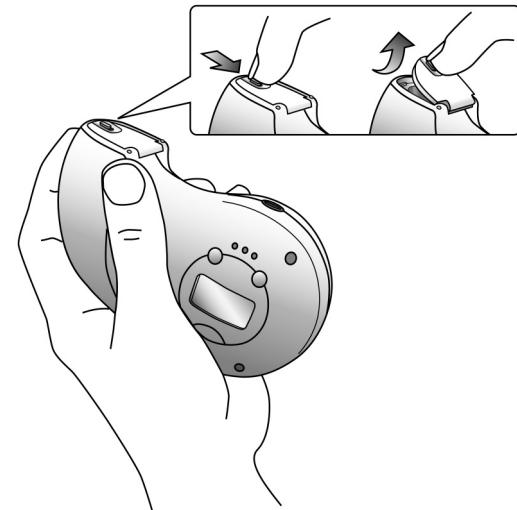


Figure 1-3: Opening the battery compartment.

# Installing PC-CAM 300

## In Windows 98, Windows 98 SE and Windows Me

To install software for your camera, use the following installation procedures according to your computer's operating system.

For users of Windows 98, Windows 98 SE and Windows Me, see "In Windows 98, Windows 98 SE and Windows Me" in the section that follows.

For users of Windows 2000, see "In Windows 2000" on page 1-11.

1. Do not connect PC-CAM 300 to your computer before installing the drivers.  
If you accidentally begin installation with PC-CAM 300 connected, the **Add New Hardware Wizard** dialog box appears.  
Disconnect PC-CAM 300 from your computer and then click the **Cancel** button.
2. Insert the PC-CAM 300 installation CD into your CD-ROM drive.
3. Click the names of the drivers and applications you want to install on your computer.
4. Follow the instructions on the screen to complete the installation.  
You may be asked, after an application is installed, if you want to restart your computer. Do not restart your computer until all the drivers and applications are installed.



5. After you have restarted your computer, connect PC-CAM 300's USB cable to an available USB port on your computer (see Figure 1-4). Windows automatically detects the device.

- The USB port(s) of certain computers may be found on the front panel instead of the back panel.
- You can also attach the camera to a self-powered USB hub.
- You can connect the camera while the computer is switched on.

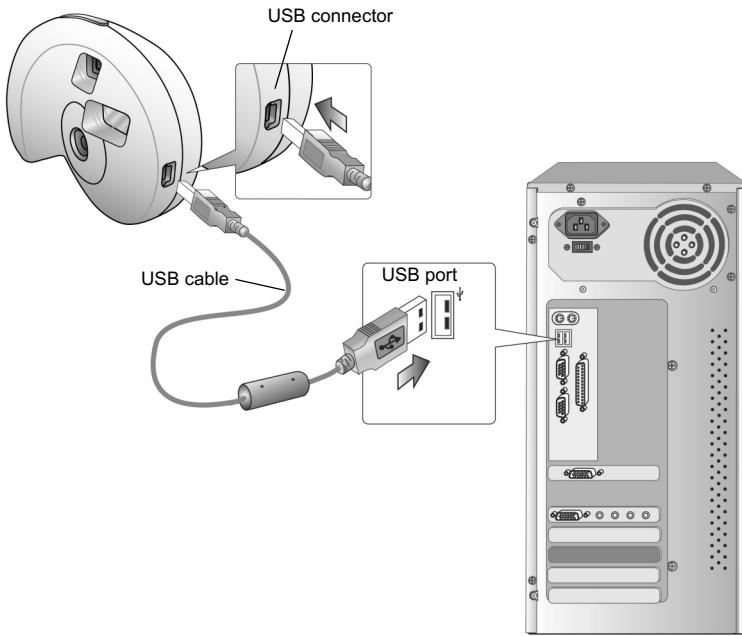


Figure 1-4: Connecting PC-CAM 300 to the computer.

- i. If you are prompted to insert the Windows 98 CD, replace the PC-CAM 300 Installation CD with the appropriate CD.  
**Note:** Windows 98 is available in various editions. Be sure to use the correct edition for your computer.
- ii. In the **Insert Disk** dialog box, click the **OK** button.
- iii. Follow the instructions on the screen.

6. Place PC-CAM 300 on top of your computer monitor or another flat surface.
7. When the **Light Frequency Selection** dialog box appears (see Figure 1-5), select the option that represents your power supply frequency, and then click the **OK** button.

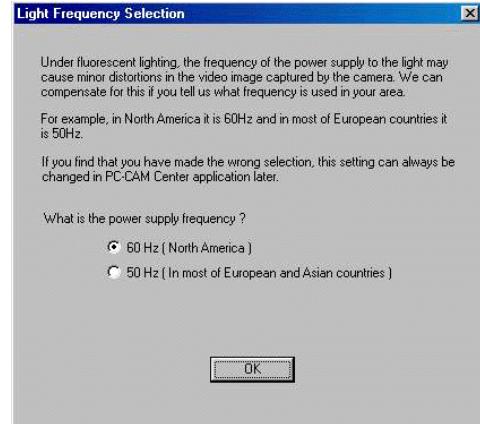


Figure 1-5: The **Light Frequency Selection** dialog box.

## Verifying the installation in Windows 98, Windows 98 SE and Windows Me

1. Right-click the **My Computer** icon on your desktop.
2. On the menu that appears, click **Properties**.
3. In the **System Properties** dialog box, click the **Device Manager** tab.
4. Click the plus (+) sign next to the **Imaging Device** icon.  
The entries **Creative PC-CAM 300 (Still Image)** and **Creative PC-CAM 300 (Video)** should appear.  
Click the plus (+) sign next to the **Universal Serial Bus controllers** icon.  
The entry **Creative PC-CAM 300 (Composite)** should appear.  
If the entries do not appear, repeat the installation procedure in topic "In Windows 98, Windows 98 SE and Windows Me" on page 1-8.

## In Windows 2000

1. Do not connect PC-CAM 300 to your computer before installing the drivers. If you accidentally begin installation with PC-CAM 300 connected, the **Found New Hardware Wizard** dialog box appears. Disconnect PC-CAM 300 from your computer and then click the **Cancel** button.
2. Insert the PC-CAM 300 installation CD.
3. Click the names of the drivers and applications you want to install on your computer.
4. Follow the instructions on the screen to complete the installation. A **Digital Signature Not Found** dialog box appears, telling you that an unknown software package has been detected, ignore the message and click the **Yes** button. You may be asked, after an application is installed, if you want to restart your computer. Do not restart your computer until all the drivers and applications are installed.
5. Connect PC-CAM 300's USB cable to an available USB port on your computer.
6. Place PC-CAM 300 on top of your computer monitor or another flat surface.
7. Two **Digital Signature Not Found** dialog boxes appear one at a time, telling you that **Creative PC-CAM 300 (Still Image)** (Figure 1-6) and **Creative PC-CAM 300 (Video)** have been detected.
8. Ignore the messages and click the **Yes** button for each dialog box.



Figure 1-6: **Digital Signature Not Found** dialog box.

9. When the **Light Frequency Selection** dialog box appears (see Figure 1-7), select the option that represents your power supply frequency, and then click the **OK** button.

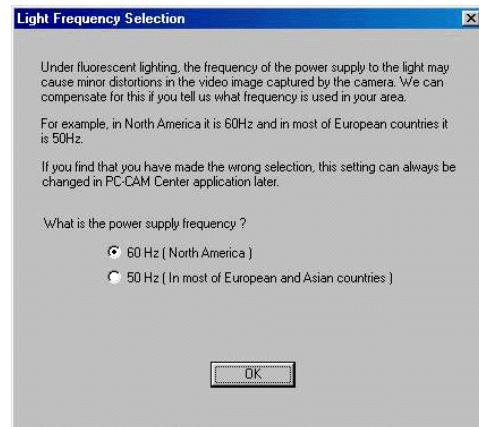


Figure 1-7: The **Light Frequency Selection** dialog box

## Verifying the installation in Windows 2000

1. Right-click the **My Computer** icon on your desktop.
2. On the menu that appears, click **Properties**.
3. In the **System Properties** dialog box, click the **Hardware** tab.
4. Click the **Device Manager** button. A window appears.
5. Click the plus (+) sign next to the **Imaging Device** icon.  
The entries **Creative PC-CAM 300 (Still Image)** and **Creative PC-CAM 300 (Video)** should appear.  
Click the plus (+) sign next to the **Universal Serial Bus controllers** icon.  
The entry **Creative PC-CAM 300 (Composite)** should appear.  
If the entries do not appear, repeat the installation procedure in topic, "In Windows 2000" on page 1-11.

# Using PC-CAM 300 as a Web Camera

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When PC-CAM 300 is connected to the computer, it can be used as a web camera. Read the following sections for more information on how you can do that:

- Starting PC-CAM Center
- Capturing Images and Videos
- Recording a Video in Preview Mode
- Viewing a Photo
- Viewing a Video
- Reactivating the Camera
- Starting PC-CAM Center Help

# Starting PC-CAM Center



If PC-CAM Center does not recognize the camera correctly, see Appendix A, "Troubleshooting."

PC-CAM Center is an easy-to-use application that enables you to take pictures and record short videos with the PC-CAM 300 camera. You can also view the pictures and videos, create and manage albums, and download image files from your camera.

To start PC-CAM Center, do one of the following:

- Click **Start -> Programs -> Creative -> Creative PC-CAM 300-> PC-CAM Center.**
- Press the Snapshot button on the camera.
- If, during installation, you clicked the option for PC-CAM Center to launch automatically at Windows startup, you will have an icon on your taskbar. Click this icon.

After PC-CAM Center is started, the PC-CAM Center screen similar to Figure 2-1 appears. The following sections describe the more commonly used operations. For more details on how to use PC-CAM Center, see the section "Starting PC-CAM Center Help" on page 2-17.

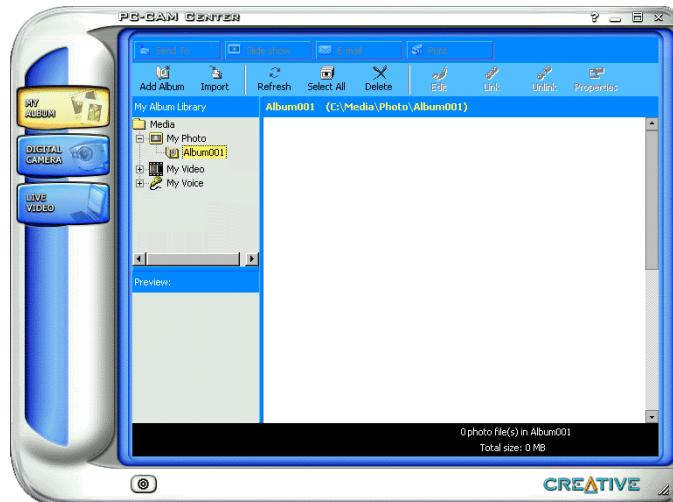


Figure 2-1: **PC-CAM Center** screen.

## Capturing Images and Videos

### Taking a Photo in Preview Mode

With PC-CAM Center, you can take photos and record videos in two modes, with and without a preview. The preview mode is active by default.

For instructions on how to take a photo or record a video without a preview, refer to the PC-CAM Center Help file. To launch PC-CAM Center Help, see “Starting PC-CAM Center Help” on page 2-17.

To take a photo in the default preview mode, do this:

1. In the **PC-CAM Center** window, click the **Live Video** button.  
The current camera view is displayed in the **Viewing** window.
2. In the **Photo Size** box, select a suitable resolution.
3. In the **Save Photo in** box, select the destination album for your photo.
4. If the **Save automatically** check box is selected, click to clear it.
5. To capture the image in the viewing window, click the **Snap Photo** button.  
at the bottom of the window.  
The image is captured but not saved. A preview of the photo is shown at the bottom-left corner of the **Live Video** window.
6. Click the **Save** button.  
The photo is added to the destination album.

### Recording a Video in Preview Mode

To record a video in the default preview mode, do this:

1. In the **PC-CAM Center** window, click the **Live Video** button.  
The current camera view is displayed in the **Viewing** window.
2. In the **Video Size** box, select a suitable resolution.
3. In the **Save Video in** box, select the destination album for your photo.
4. If the **Save automatically** check box is selected, click to clear it.
5. To start recording a video, click the **Capture video** button.  
The button starts blinking to indicate that recording is now in progress.

6. To stop the recording, click the button again.  
The button stops blinking.  
The video is captured as an AVI file but not saved.
7. To preview the video, click the **Play** button on the bottom-left corner of the **Live Video** window.  
After you have previewed the video, and have decided that you want to save the video, click the **Save** button.
8. The video capture is added to the destination album.

## Viewing a Photo

To view a photo you have taken, do this:

1. Click the **My Album** button.  
PC-CAM Center is now in **My Album** mode.
2. In the **My Album Library** box, click the **My Photo** folder and then click the album that contains the photos that you want to view.  
The album's thumbnails are displayed in the **Thumbnails** window.
3. Double-click the thumbnail of the image that is displayed in the **Thumbnails** window.  
The image is displayed in the PC-CAM 300 **Viewing** window, in its actual size.  
If you are not satisfied with the result, you can select a higher resolution, and then capture the image again.

## Viewing a Video

To view a video you have taken, do this:

1. Click the **My Album** button.  
PC-CAM Center is now in **My Album** mode.
2. In the **My Album Library** box, click the **My Video** folder and then click the album that contains the video that you want to view.  
The album's thumbnails are displayed in the **Thumbnails** window.

3. Double-click the thumbnail of the video that is displayed in the **Thumbnails** window. The video is displayed in the PC-CAM 300 **Viewing** window, in its actual size. If you are not satisfied with the result, you can select a higher resolution, and then capture the video again.

## Reactivating the Camera

## Starting PC-CAM Center Help

If the computer goes into standby mode, the camera will go into suspend mode. You can reactivate the camera and computer using the following methods:

- Move the mouse or press any key on the keyboard.
- Press the camera's **Snapshot** button.

This Help file contains instructions on how to use PC-CAM Center to take pictures and record short videos. It also teaches you how to change settings so as to achieve optimum quality for your pictures and videos.

### To start the Help file

1. Click the Creative logo at the top left corner of PC-CAM Center's main window.
2. On the **PC-CAM Center** menu, click **Help**.

# Using PC-CAM 300 as a Digital Camera

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To use PC-CAM 300 functions as a portable digital camera, when it is not connected to your computer.

**Note:** Remember to insert four 1.5 V AAA alkaline batteries into the camera's battery compartment.

This chapter provides instructions on the following aspects of using PC-CAM 300 as a digital camera:

- Turning on The Camera
- Battery Low
- Taking Pictures
- Tips on Taking Good Pictures
- Recording a Video Clip
- Recording Voices or Sounds
- Downloading Images and Audio from the Camera
- Deleting Images and Audio from the Camera.

## Turning on The Camera

To turn on the camera, do the following:

- ▶ Press the On/Off button on the camera.  
One beep indicates that your camera has been turned on.

## Battery Low

When the battery is running low, the following occurs:

- Battery-low indicator (as shown on the right) is displayed.
- When the Snapshot button is pressed, two warning beeps are heard.



# Taking Pictures



- You can only turn on the camera when it is disconnected from the computer.
- If there is insufficient memory in the camera, the counter drops to “000” immediately.
- When the counter value reaches “000,” you cannot take any more pictures until you have cleared the camera’s memory by deleting existing pictures.
- The Multiple-snapshot mode consumes more battery power.
- The camera turns itself off if it is left idle after three minutes.

1. Make sure the USB cable is unplugged from the camera.
2. Press the On/Off button on the camera. Two beeps will follow. When the camera is first turned on, it is in the default state.  
The following default LCD icons are displayed:
  - The default operation mode will be displayed: Single Snapshot (high quality, 640 x 480 pixel) mode.
  - The default flash setting will be displayed: Autoflash.
  - The number of images you can take is shown by the image counter on the LCD. See Figure 1-2 on page 1-3.
3. To change the flash mode of the camera, press the Flash Mode button:
  - Auto**
  - In this mode, the camera automatically detects whether there is sufficient light and activates the camera flash if needed.
  - Always**
  - In this mode, the camera emits one flash for every photo taken.
  - Red Eye**
  - In this mode, the camera emits multiple quick flashes, followed by a normal flash for each photo taken. This flash mode reduces the ‘red eye’ effect caused by insufficient pupil dilation.
  - Disabled**
  - In this mode, the flash is turned off.
4. To change the operation mode of the camera, press the Operation Mode button:
  - Single snapshot (high quality)**
  - This is the default mode once the camera is turned on.
  - Select this mode if you want to take single snapshots at high resolution. Images are captured at a resolution of 640 x 480.



When the audio cues of your camera are enabled, a warning sound is emitted if the lighting conditions are inadequate for a snapshot.

Select the flash mode that you want, then press the Snapshot button to take a snapshot. The front red LED blinks once. The camera-ready green LED will blink when the image is stored into memory, and turns off after the image is saved.

**Single snapshot (low quality)**

Select this mode if you want to take single snapshots at low resolution. Images are captured at a resolution of 320 x 240.

Select the flash mode that you want and then press the Snapshot button to take a snapshot. The front red LED blinks once and the camera-ready green LED blinks when the image is stored into memory, and turns off after the image is saved.

**Self-timer single snapshot**

Select this mode if you want a high resolution snapshot to be taken after a delay of ten seconds.

You can use this feature to take pictures of yourself.

Press the Snapshot button to take a delayed snapshot. The front LED light will blink with increasing speed and then proceed to take a snapshot in the Single-snapshot mode. The default delay time is ten seconds.

**Note:** You can cancel the snapshot while the camera is counting down by pressing the Snapshot button again.

**Multiple snapshot**

Select this mode if you want to take a series of five successive snapshots at high resolution.

Press the Snapshot button once to take the snapshots. The front red LED will light up and the camera-ready green LED blinks, indicating that the images are being stored to memory.

The flash is automatically disabled in this mode.

The image counter displays that the available number of snapshots has decreased by five.



- The counter value normally decreases by one after a picture is taken.
- Depending on the quality of the picture, the counter value may also decrease by two, or not at all.

## Tips on Taking Good Pictures

5. Aim the camera at the desired object, use the camera's viewfinder to verify that the object is in the camera's view.  
**Note:** The object should be at least 75 cm from the camera.
6. Hold the camera still and press the Snapshot button.
7. The front red LED lights up and the camera-ready green LED indicator blinks. At this point, do not shake the camera. When the picture has been taken, the indicator turns off. The picture taken is stored in the camera's memory, and the counter value decreases accordingly, depending on the quality of the picture taken.
8. To take another picture, repeat steps 4 through 6.
9. To turn off the camera, press and hold the On/Off button for two seconds.

There are a few tips to note when taking a good picture.

### **Bright lighting**

Avoid taking pictures with bright light sources all around the object. These lights will create "hotspots," which will affect the quality of the picture.

### **Bad lighting**

When indoors or outdoors, be sure there is enough light falling onto the object. Avoid taking pictures of objects in shadows, especially when the light source (e.g., sun or spotlight) is directly behind the object. Select the 'Always Flash' flash mode to take a photo if you still want to capture an image under these conditions.

### **Distance**

This camera is focus free but be sure the minimum distance between camera and object is not less than 75 cm. Any closer, the close-up images may appear fuzzy.

Fill the viewfinder with the object (unless taking a panoramic picture).

### **Moving objects**

Fast-moving objects may appear blurry in your picture.

Unless a blurred or out-of-focus effect snapshot is intended, avoid taking fast-moving objects.

## Recording a Video Clip



In Video Recording mode:

- The camera's flash is automatically disabled.
- The audio is automatically enabled

### Camera shake

Shaking the camera while taking pictures may also result in a blurred picture. So keep your hands steady at all times for sharp, clear pictures.

To avoid shaking the camera, gently squeeze the Snapshot button.

If necessary, use both hands to hold the camera while pressing the Snapshot button.

To start recording a video clip, do the following:

1. Press the Operation Mode button to select the Video Recording mode .
2. Aim the camera at the desired object, use the camera's viewfinder to verify that the object is in the camera's view.  
**Note:** The object should be at least 75 cm from the camera.
3. Hold the camera still and press the **Snapshot** button.  
A beep sound is heard at the start of recording.  
The Video Recording mode icon flashes to indicate that recording has begun.
4. The front red LED lights up and the camera-ready green LED indicator blinks. At this point, do not shake the camera. When the video has been taken, the indicator will go off.  
Audio recording is enabled automatically during video taking.
5. Press the Snapshot button once more to end the recording.  
A beep sound is heard at the end of the recording.
6. The recorded video clip taken is stored in the camera's memory, and the counter value decreases accordingly.

## Recording Voices or Sounds

To start recording voices or sound samples, do the following:

1. Press the Operation Mode button to select the Audio Recording mode. 
2. Position the Camera near the sound source and press the Snapshot button once to start recording.  
A beep sound is heard at the start of the recording.  
The Audio Recording mode icon flashes to indicate that recording has begun.  
The camera-ready LED indicator blinks.
3. Press the Snapshot button again to end the recording.  
A beep sound is heard at the end of the recording.  
The audio sample is stored in the camera's memory, and the counter value decreases accordingly, depending on the quality of the picture taken.

## Downloading Images and Audio from the Camera

To download the pictures, video clips or audio samples you have taken, connect the camera to your computer and then use PC-CAM Center to download the files.

**To download pictures, video clips or audio samples, do the following:**

1. In the PC-CAM Center window, click the **Digital Camera** button.  
A thumbnail view of the media files stored in the camera's memory is displayed.
2. Click the box above the **Thumbnails** window, and then select the type of media files you want to download. The **Thumbnails** window will now only show the relevant media files.
3. Click the **Transfer To** button.
4. In the **Destination** box, click the album to transfer the files to. Depending on the type of media files in your camera, only the relevant media album will be shown. Alternatively, drag-and-drop the thumbnails to the relevant album directly.

## Deleting Images and Audio from the Camera

### Docked Mode



In PC-CAM Center, you cannot delete individual files. You must delete all the files from the camera.

### Undocked Mode

After downloading the picture, video and audio files safely into your album, delete them from your camera to make space for new pictures, videos and audio samples to be stored.

1. In the **PC-CAM Center** window, click the **Digital Camera** button. A thumbnail view of the pictures stored in the camera's memory is displayed.
2. Click the **Select All** button to select all the files in the camera memory.
3. Click the **Delete** button on the toolbar. All the selected files are removed from the camera's memory.

#### To delete all the files in your camera's memory, do this:

1. In any mode, press the Snapshot button and Operation Mode button simultaneously for more than two seconds to delete all the files from the camera.
2. A beep sound is heard when the memory is cleared and the LCD displays the maximum number of pictures, videos or audio samples that can be taken.

#### To clear the last image or audio sample recorded in your camera, do this:

1. In any mode, press the Snapshot button and Flash Mode button simultaneously for more than two seconds to delete the last photo, audio or audio file from the camera.
2. A beep sound is heard when the last file is cleared.  
The value on the camera's Image counter increases accordingly.

# Technical Specifications

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## Features and Specifications

- Color VGA (640 x 480 pixels) CCD image sensor
- 8 MB of on-board non-volatile memory for image storage
- LCD counter display to indicate number of pictures left and mode of stills captured
- Snapshot button for taking pictures or videos when used as a stand-alone camera
- LEDs to indicate powered-on state and camera-readiness state
- High-quality, focus-free, scratch-resistant glass lens
- Built-in optical viewfinder
- Operation Mode button for selection of four different modes of still capture
- When detached:
  - Capable of capturing up to 255 still pictures ((JPEG format)
  - Capable of capturing up to 75 seconds of video
  - Capable of capturing up to 34 minutes of audio
  - Images are stored natively in native JPEG format
  - Draws power from four AAA batteries
- (Note:** Battery life depends on mode and battery type.  
four AAA alkaline batteries can last for up to 1000 snapshots with flash and 3000 snapshots without flash.)
- Auto shut-off after three minutes of idle time

## Driver and Operating System Compatibility

- When attached:
  - Captures video at up to 30 frames per second at image resolutions of 320 x 240 and 160 x 120 and up to 15 frames per second at 640 x 480
  - Captures still images in 24-bit color at all image resolutions up to 1024 x 768
- Attaches to the computer via the Universal Serial Bus (USB) port
- USB model supports Windows 98, Windows Me and Windows 2000
- WDM MiniDriver for DirectShow, and Video For Windows compatibility
- TWAIN support
- Standard interface works with virtually all camera applications including Microsoft NetMeeting
- Microsoft Still Image (STI) support

## Power

From USB port or self-powered USB hub (powered by an external power source).

## Sensor

CCD image sensor

## Image Resolution (Docked Mode)

- Still Mode
  - 1024 x 768 (with software interpolation)
  - 800 x 600 (with software interpolation)
  - 640 x 480
  - 320 x 240
  - 160 x 120

	<input type="checkbox"/> Video Mode <ul style="list-style-type: none"> <li>• 640 x 480</li> <li>• 352 x 288</li> <li>• 320 x 240</li> <li>• 176 x 144</li> <li>• 160 x 120</li> </ul>
<b>Image Resolution (Undocked mode)</b>	<input type="checkbox"/> 640 x 480 <input type="checkbox"/> 320 x 240
<b>Light Sensitivity</b>	10 lux
<b>Video Formats</b>	<input type="checkbox"/> 24-bit RGB <input type="checkbox"/> 4:2:0 YUV Planar <input type="checkbox"/> JPEG
<b>Exposure Control</b>	Automatic (optional manual control with software)
<b>Color Balance</b>	Automatic (optional manual control with software)
<b>Color Matrix</b>	Preset and integral to camera
<b>Field-of-View</b>	<input type="checkbox"/> 50 degrees (diagonal) <input type="checkbox"/> 40 degrees (horizontal)
<b>Depth-of-Field</b>	76 cm to infinity
<b>Port Compatibility</b>	Universal Serial Bus port
<b>Flash</b>	Up to 2 meters effectiveness

# Troubleshooting

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## Problem Installing Software

*The setup program for PC-CAM 300 does not run automatically after you insert the Installation CD into the drive.*

**Cause** The AutoPlay feature in your Windows system may not be enabled.

**Solution** To install the software from the CD:

1. Leave the installation CD in the CD-ROM drive.
2. Click **Start** -> **Run**.
3. In the **Run** dialog box, click **D:\CTRUN\CTRUN.EXE** (where D: represents your CD-ROM drive).
4. Follow the instructions on the screen to complete the installation.

## Problems Using PC-CAM 300

*There is no USB port available to connect the USB cable.*

**Solution** Do one of the following:

- Unplug the device currently connected to the USB port.
- Add a self-powered USB hub.
- Add a PCI USB card.

*An application reports that the video driver is already in use, or that the camera cannot be found.*

**Solution** Do the following:

- The camera is not properly connected. To resolve this problem, ensure that the camera's USB connector is inserted, and that the USB host controller is enabled in your computer's BIOS. Refer to your computer's documentation for information on the BIOS.
- Reinstall the video capture drivers and reboot.

*The image is too bright even though exposure and brightness levels have been adjusted.*

**Cause** The amount of light entering the camera has exceeded the exposure control limit. There may be a very bright object in the camera's view.

**Solution** Avoid pointing the camera at very bright objects (for example, sunlight, anticipated light sources, or highly reflective surfaces).

*Insufficient system resources reserved for the USB port, causing the computer to be unable to function.*

**Cause** There are too many devices in the computer, causing IRQ conflicts with the computer's USB controller.

**Solution** Do the following:

1. Remove some devices from the computer.
2. Restart the computer.

The computer will automatically re-allocate the resources.

*When the camera is connected to the computer, pressing the Snapshot button does not start an application.*

**Cause** The application to be activated has not been pre-selected.

**Solution** Do the following:

1. Click Start -> Settings -> Control Panel.
2. In the **Control Panel** window, double-click the **Scanners & Cameras** icon. The **Scanners & Cameras Properties** dialog box appears.
3. On the **Devices** tabbed page, select the entry **Creative PC-CAM 300 (Video)** and then click the **Properties** button.
4. In the **Creative PC-CAM 300 (Video) Properties** dialog box, click the **Events** tab.
5. On the **Events** tabbed page, ensure that the **Disable device events** check box is not selected.
6. In the **Camera events** list, select **Open Application**.
7. In the **Send to this application** list, select **PC-CAM Center** and/or other applications that you want to activate by pressing the **Snapshot** button.
8. Ensure that you have selected an application for taking pictures.



If you select more than one application, you will be prompted to choose one of them when you press the Snapshot button.

# Note on USB Compatibility

In our testing on a wide variety of computer motherboards with integrated Universal Serial Bus (USB) ports, we have encountered a small number of motherboards with USB ports that do not meet the USB specification exactly. Unfortunately, PC-CAM 300 *may* not operate correctly with these computers.

So far, for some of the non-USB-compliant motherboards that we have tested, the motherboard manufacturers have released new versions of motherboards or BIOS to address the problem.

If the camera does not work on your computer and you suspect that the problem may be related to your computer's USB port, the following is a list of available options:

1. Contact your computer vendor.  
Your computer vendor may be able to upgrade your motherboard or its BIOS to a newer version that addresses USB incompatibilities.
2. Use a PCI host adapter which provides USB connectors.  
If you are not able to upgrade your motherboard or its BIOS, we recommend this approach.
3. Attach PC-CAM 300 to a self-powered USB hub.  
Some USB devices (such as monitors) also operate as self-powered USB hubs; you can also buy dedicated powered USB hubs which are to be attached to your computer's USB port. However, in some cases, attaching a powered USB hub to a non-USB-compliant USB motherboard connector will not solve the problem



To look for a USB compatible product, you can visit the product search page at the official USB web site: <http://www.usb.org/app/search/products>.

## Technical Support

Visit our online help websites for help with installation, answers to frequently asked questions, or troubleshooting tips. Our websites hold a wealth of information as well as up-to-the-minute software and driver upgrades.

**www.americas.creative.com/support**

### BEFORE YOU CONTACT US

Please fill out the following information and be seated at your computer.

- Model #: \_\_\_\_\_ Serial # \_\_\_\_\_ (both found on the back of the device)
- Error message on the screen and how it came about: \_\_\_\_\_  
\_\_\_\_\_
- Information on the adapter card that conflicts with the product (if applicable):  
\_\_\_\_\_
- Hardware configuration information: \_\_\_\_\_
- I/O address: \_\_\_\_\_
- IRQ line: \_\_\_\_\_
- DMA channel used (if applicable): \_\_\_\_\_
- Computer type and speed: \_\_\_\_\_
- Type and version of your operating system; Windows 95/98/Me/NT/2000: \_\_\_\_\_

For comments or questions regarding our technical support, you can also contact us at the following address: Creative Labs, Inc., Technical Support, 1523 Cimarron Plaza, Stillwater, OK 74075.

If after consulting our online help, you still have an installation question on a Creative product, you may contact us by the following numbers (please have your system hardware and operating system configuration information and Creative product model and serial numbers available for the call): (405) 742-6622 telephone, (405) 742-6633 fax.

## Product Return

To return a Creative product for a factory service, contact the Creative Technical Support office. Once the staff has verified the product is defective, you will be given a Return Merchandise Authorization (RMA) number.

**NOTE:** Retain your purchase receipt, as well as all packaging and contents, until all product components are functioning to your satisfaction. They are required in the unlikely event you need to return the product to Creative.

When returning a product for factory service:

- Shipment to Creative is at your expense and you assume all risk. Ship the package through a carrier that provides proof of delivery; insure the shipment at full product value.
- Place the RMA number on the outside of the package.
- Use proper materials for packing the product for shipment.
- For free repair or replacement, you must include a copy of a dated proof of purchase (store receipt), proving the product is still under Warranty

Creative may replace or repair the product with new or reconditioned parts, and the faulty parts or product will become the property of Creative.

Outside the United States

To avoid tariffs when shipping a product to Creative Labs from outside the U.S., you must complete an official customs form before shipping the product. *To ensure delivery, Creative may include charges for return shipment.*